

## EXAMPLE OF AN ENVIRONMENTAL ASSESSMENT DETERMINATION

### ENVIRONMENTAL ASSESSMENT DETERMINATION (EAD)

**U.S. DEPARTMENT OF ENERGY  
QUADRANT II CORRECTIVE MEASURES IMPLEMENTATION AT THE PORTSMOUTH GASEOUS  
DIFFUSION PLANT  
(NON-SUBPART D)  
EAD PORTS – 2002-001**

**Proposed Action:** To implement corrective measures activities in Quadrant II at the Portsmouth Gaseous Diffusion Plant.

**Location:** The location of the proposed action is the Portsmouth Gaseous Diffusion Plant (PORTS), Piketon, Ohio.

**Brief Description of the Proposed Action:** The U.S. Department of Energy (DOE) proposes to implement corrective measures in Quadrant II at PORTS. The environmental corrective measures are necessary to comply with the DOE signed compliance agreement with the U.S. Environmental Protection Agency (EPA) and the Ohio EPA that require DOE to conduct RCRA corrective measures at PORTS to remediate soil and groundwater in portions of Quadrant II, which are contaminated at levels exceeding acceptable risk criteria. A system was developed to evaluate Solid Waste Management Units (SWMU) in Quadrant II which are considered a source or potential source of contamination. Each SWMU was categorized on the basis of current and realistic future risk determined by analyzing data from the RCRA Facility Investigation (RFI) Baseline Risk Assessment. The units were placed in categories of SWMUs requiring remedial action alternatives developed in a Corrective Action Study/Corrective Measures Study (CAS/CMS).

Two units were determined to require development of remedial action alternatives. There were the X-701B Holding Pond and Retention Basins Area and the X-701B Groundwater Plume Area. A wide range of corrective measures technologies and methods were evaluated as part of the Quadrant II CAS/CMS. At the X-701B Groundwater Plume Area, the potential corrective measures ranged from institutional controls to various combinations of ex-situ and in-situ treatment including bio-and phyto-remediation and steam stripping or electrical resistance heating with vapor extraction. The proposed action is to implement an as yet undetermined combination of these technologies to remediate groundwater and soil contamination in two areas of Quadrant II.

**Class of Action:** Non-Subpart D

Based on my review, I recommend that an Environmental Assessment (EA) be prepared to assess the impacts of the proposed action.

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David R. Allen, ORO  
National Environmental Policy Act Compliance Officer

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Date

Based on my review and the recommendation of the ORO NEPA Compliance Officer, I recommend that an EA be prepared to assess the impacts of the proposed action.

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Gerald G. Boyd, ORO  
Assistant Manager for Environmental Management

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Date

Based on the recommendation of the ORO NEPA Compliance Officer and the Assistant Manager for Environmental Management, I have determined that an EA will be prepared to assess the impacts of the proposed action. Based on the analysis in the EA, DOE will either prepare a Finding of No Significant Impact and proceed with the action or will prepare an Environmental Impact Statement if the EA reveals the potential for significant impacts.

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James A. Turi, Acting Manager  
Oak Ridge Operation Office

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Date